

Energy Solutions Career Pathway

MISSOURI ECONOMIC RESEARCH & INFORMATION CENTER
MISSOURI DEPARTMENT OF HIGHER EDUCATION
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What are Career Pathways?

Career Pathways are groups of occupations within a career field. Occupations within a pathway share common skills, knowledge, and interests. The pathways use industry-recognized credentials and are examples of how different levels of training or education can help provide opportunities for career advancement.

Missouri Numbers:



6,228 Employers



111,486 Workers



\$71,230 Average Wage

Why Have a Career in Energy Solutions?

The Energy Solutions industry provides long-term and low-impact solutions to the energy demands of Missouri. The Energy Solutions industry represents 4.9 percent of total private sector employment, employing over 111,000 workers in more than 6,000 establishments in 2020. Employment in this industry has been steadily growing, increasing 0.9 percent per year from 2015 to 2020. Missouri has high employment concentrations in Energy Solutions, particularly in HVAC Commercial Refrigeration Equipment Manufacturing and Other Electrical Equipment and Component Manufacturing. Average annual wages in this industry are \$71,230, much higher than the state average of \$54,801 for all industries. Many occupations common in this industry, such as engineers and skilled production workers, have high wages.

With new technologies being created, the Energy Solutions industry is constantly working to meet the energy needs of today and tomorrow. There are many opportunities for a meaningful and rewarding career with good pay and advancement in Production and Engineering/Quality Control.

Know the Basics

The Energy Solutions industry deals heavily with engineering, research, and production, so knowledge of mathematics, science, and the ability to use critical and analytical thinking is important. Safety and quality control issues are also a critical part of this industry, along with knowledge of environmental laws and regulations. Soft skills, such as interpersonal skills, professionalism, and dependability are important in all industries and occupations, including Energy Solutions.

Skills needed for Success:

The Energy Solutions industry has a set of industry-wide technical competencies that represent the knowledge and skills needed to be successful in this industry. Knowledge of nuclear and non nuclear energy generation, as well as distribution are among the key skills needed for success.

Who's Hiring in Missouri?

Burns & McDonnell

Emerson Electric

Leidos

Thermo Fisher Scientific Inc.

Danaher Corporation



Engineering/ Quality Control

Production

Now

Short-Term On-the-Job Training

See Next and Later categories for job opportunities in Engineering and Quality Control

Helpers-Production Workers
Entry: \$25,930; Average: \$31,420

Certificates: Forklift Operation

Next

Certificate, Associate Degree, Apprenticeship, Moderate- to Long- Term On-the-Job Training

Architectural & Civil Drafters
Entry: \$45,130; Average: \$61,020

Mechanical Drafters
Entry: \$44,760; Average: \$59,220

Electrical Engineering Technicians
Entry: \$57,430; Average: \$67,760

**First-Line Supervisor of Production
& Operating Workers**
Entry: \$45,300; Average: \$61,220

Welders
Entry: \$34,840; Average: \$43,650

Chemical Plant & System Operators
Entry: N/A; Average: N/A

Degrees: Engineering, Drafting and Design
Certificates: CAD Certification, Certified Quality Auditor

Certificates: Forklift Operation, Commercial Driver's License (CDL), Welding, Occupational Safety & Health Administration (OSHA)

Later

Bachelor's Degree or Advanced Degree

Civil Engineers
Entry: \$66,170; Average: \$86,410

Architectural & Engineering Managers
Entry: \$113,800; Average: \$147,020

Electrical Engineers
Entry: \$77,960; Average: \$103,420

Industrial Production Managers
Entry: \$80,440; Average: \$109,430

Degrees: Engineering

Degrees: Engineering, Business Administration & Management

Sources:

EMSI Burning Glass Technologies Labor/Insight™ tool
Employment and Training Administration, Competency Model Clearinghouse
2020 Occupational Employment Survey Wage data, U.S. Bureau of Labor Statistics
Quarterly Census of Employment and Wages, U.S. Bureau of Labor Statistics
Top employers data is based on 2021 online job ads



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